

CLAIMS

1. (Currently Amended) A method of determining an Internet Protocol (IP) address of an application server of a serving network, comprising:

receiving an IP address by a user equipment upon authentication within a visited serving network;

performing a reverse domain name query by the user equipment as a function of the received IP address;

receiving, by the user equipment, a response from the visited serving network to the reverse domain name query;

deriving, by the user equipment, serving network domain name information from the reverse domain name query;

~~prefacing an application server name to~~ appending, by the user equipment, the derived serving network domain name information to an application server name;

performing, by the user equipment, a domain name query as a function of the derived serving network domain name ~~prefaced with~~ appended to the application server name; and

receiving, by the user equipment, an IP address as a function of the derived serving network domain name ~~prefaced with~~ appended to the application server name.

2. (Original) The method of Claim 1, wherein the step of receiving an IP address further comprises receiving an IP address for a user equipment (UE).

3. (Original) The method of Claim 1, wherein the step of receiving an IP address further comprising receiving an IP address associated with a device providing IP address to the serving network

4. (Original) The method of Claim 3, further comprising transmitting an IP of address of a gateway to the UE.

5. (Original) The method of Claim 1, wherein the step of deriving the serving network domain name information from the reverse domain name query further comprises deriving information from a Uniform Resource Identifier (URI).
6. (Original) The method of Claim 1, wherein the application server is a Proxy Call Session Control Function (P-CSCF) server name.
7. (Withdrawn) A UE for determining the application server name associated with a serving network, comprising:
 - a memory for storing at least one application server name;
 - a requestor configured to initiate contact to a network;
 - a memory for storing a received IP address requested by the requestor;
 - a reverse domain name system (DNS) query initiator configured to use the contents of the memory for storing the received IP address;
 - a memory for storing reverse DNS query information generated as a result of the reverse DNS query initiator;
 - logic to extract a domain name from the reverse DNS query information;
 - logic to preface at least one application server name to the domain name extracted from the reverse DNS query information;
 - a DNS query initiator configured to transmit the prefaced application server name and domain name extracted from the reverse DNS query information; and
 - memory for storing the IP application of an application server extracted from the reverse DNS query information.
8. (Withdrawn) The UE of Claim 7, wherein the requestor is configured to request an IP address for the UE.
9. (Withdrawn) The UE of Claim 7, wherein the requestor is configured to request an IP address associated with a device providing IP address to the serving network.

10. (Withdrawn) The UE of Claim 7, wherein the logic to extract a domain name from the reverse DNS query information comprises software.
11. (Withdrawn) The UE of Claim 7, wherein the logic to extract a domain name from the reverse DNS query information comprises hardware.
12. (Withdrawn) The UE of Claim 7, wherein the at least one application server name comprises a plurality of server names.
13. (Withdrawn) The UE of Claim 7, wherein the at least one application server name comprises P-CSCF.
14. (Withdrawn) The UE of Claim 7, wherein the UE comprises an IP capable device.
15. (Currently Amended) A system for determining an IP address of an application server of a serving network, comprising:
 - an access gateway;
 - a DNS associated with the serving network and coupled to the access gateway;
 - an UE in communication with the visited network, wherein the UE is configured to:
 - request an IP address for the UE from the visited network;
 - receive the requested IP address associated with the UE;
 - perform a reverse domain name query as a function of the received IP address;
 - receive a response to ~~[[a]]~~ the reverse domain name query ~~as a function of the received requested IP address;~~
 - derive domain name information from the reverse domain name query;
 - ~~preface~~ append the derived domain name information to ~~[[an]]~~ a standardized application server name ~~to the extracted domain name,~~ thereby generating a domain-specific application server name;
 - perform a domain name query as a function of the domain-specific application server name; and

receive an IP address as a function of the domain-specific application server name.

16. (Original) The system of Claim 15, wherein the serving network has a URI.
17. (Original) The system of Claim 15, wherein the requestor is configured to request an IP address for the UE.
18. (Original) The system of Claim 15, wherein the requestor is configured to request an IP address associated with a device providing IP address to the serving network.
19. (Original) The system of Claim 18, further comprising transmitting an IP of address of a gateway to the UE.
20. (Currently Amended) The system of Claim 15, further comprising ~~wherein the~~ logic to extract a domain name from the reverse DNS query.